

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

0 9001.2000 CENT					
	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)		(Pathology)	
IAME	: Mr. SUNIL AGGARWAL				
GE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1687884	
OLLECTED BY	:		REG. NO./LAB NO.	:012412020	006
EFERRED BY	:		REGISTRATION DATE	:02/Dec/2024	08:36 AM
ARCODE NO.	: 01521823		COLLECTION DATE	:02/Dec/2024	
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Dec/2024	09:04AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
fest Name		Value	Unit	Biolo	gical Reference interval
	SWAST	HYA WE	LLNESS PANEL: 1.5	i	
	COMP	PLETE BL	OOD COUNT (CBC)		
ED BLOOD CELLS	<u>S (RBCS) COUNT AND INDICES</u>				
AEMOGLOBIN (H	(B)	14.2	gm/dL	12.0	- 17.0
by CALORIMETRIC ED BLOOD CELL ((RBC) COUNT	5.2 ^H	Millions/	cmm 3.50	- 5.00
	FOCUSING, ELECTRICAL IMPEDENCE		0/	40.0	54.0
ACKED CELL VOL by CALCULATED BY A	UNIE (PCV) AUTOMATED HEMATOLOGY ANALYZER	45.2	%	40.0	- 54.0
	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	86.9	fL	80.0	- 100.0
IEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	27.3	pg	27.0	- 34.0
	AUTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	31.4 ^L	g/dL	32.0	- 36.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER				
	SUTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	15.6	%	11.00	0 - 16.00
	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	50.8	fL	35.0	- 56.0
IENTZERS INDEX	AUTOMATED HEMATOLOGT ANALTZER	16.71	RATIO	BETA	A THALASSEMIA TRAIT: <
by CALCULATED				13.0	DEFICIENCY ANEMIA.
				>13.0	I DEFICIENCY ANEMIA:
REEN & KING INI	DEX	26.06	RATIO		A THALASSEMIA TRAIT:<=
by CALCULATED				65.0 IRON	DEFICIENCY ANEMIA: >
				65.0	
VHITE BLOOD CE					
OTAL LEUCOCYTI by FLOW CYTOMETR	E COUNT (TLC) y by sf cube & microscopy	7350	/cmm	4000) - 11000
UCLEATED RED E	BLOOD CELLS (nRBCS)	NIL		0.00	- 20.00
	RT HEMATOLOGY ANALYZER BLOOD CELLS (nRBCS) %	NIL	%	< 10	%
	AUTOMATED HEMATOLOGY ANALYZER			- 20	





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)





NAME



Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mr. SUNIL AGGARWAL

MD (Pathology) CEO & Consultant Pathologist

AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1687884
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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	58	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4263	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2499	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	220	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	368	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIV	<u>'E MARKERS.</u>		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	238000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.24	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	62000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	26	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.2	%	15.0 - 17.0



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Test Name	Value	Unit	Biological Reference interval





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REFERRED BY	:	REGIS	STRATION DATE	: 02/Dec/2024 08:36	6 AM
BARCODE NO.	:01521823		ECTION DATE	: 02/Dec/2024 08:50)AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 02/Dec/2024 03:08	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,				
Test Name		Value	Unit	Biological	Reference interva
WHOLE BLOOD	EMOGLOBIN (HbA1c):	6.8 ^H	%	4.0 - 6.4	
WHOLE BLOOD	RMANCE LIQUID CHROMATOGRAPHY)				
by HPLC (HIGH PERFO	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	148.46 ^H	mg/dL	60.00 - 14	0.00
INTERPRETATION:					
	AS PER AMERICAN REFERENCE GROUP	DIABETES ASSOCIATION ((ADA): LATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	0210031	<5.7		
	t Risk (Prediabetes)		5.7 - 6.4		
	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
		Goals of The		< 7.0	
Therapeut	ic goals for glycemic control	Actions Sugge		>8.0	
		Goal of ther	Age < 19 Years	<7.5	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropiate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia faisely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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IENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	г	
est Name		Value	Unit	Biological Reference interval
An ESR can be affe C-reactive protein This test may also stemic lupus eryth DNDITION WITH LO	ected by other conditions besides i be used to monitor disease activit ematosus W ESR	nflammation. I y and response	For this reason, the ESR is type to therapy in both of the a	bove diseases as well as some others, such as
An ESR can be affe C-reactive protein This test may also stemic lupus eryth NDITION WITH LO ow ESR can be see olycythaemia), sigu sickle cells in sick DTE: ESR and C - reactiv Generally, ESR doo CRP is not affected	ected by other conditions besides i be used to monitor disease activit ematosus W ESR en with conditions that inhibit the	nflammation. I y and response normal sedime unt (leucocytos R. of inflammatic RP, either at th y making it a be	For this reason, the ESR is ty e to therapy in both of the a entation of red blood cells, si sis) , and some protein abno n. e start of inflammation or as e stter marker of inflammatior	bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suc s it resolves.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 02/Dec/2024 09:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAST	ГING (F)	
	G (F): PLASMA	109.58 ^H	mg/dL	NORMAL: < 100.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TOT	TAL: SERUM	218.91 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		Ů	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
RIGLYCERIDES: SI		113.26	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM	47.79	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
.,				60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL by CALCULATED, SPE		148.47 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
by CALCOLATED, OF L				BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
ION HDL CHOLEST	EROL: SERUM	171.12 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE		171.12		ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
LDL CHOLESTERC		22.65	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER		551.08	mg/dL	350.00 - 700.00
by CALCULATED, SPE	CTROPHOTOMETRY		Ũ	
CHOLESTEROL/HD		4.58 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
,,,,,,,,,				MODERATE RISK: 4.50 - 7.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		3.11 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		2.37 ^L	RATIO	3.00 - 5.00

INTERPRETATION: 1. Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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	LIVE	R FUNCTION '	TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SF	SERUM	1.41 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.41 ^H	mg/dL	0.00 - 0.40
	CT (UNCONJUGATED): SERUM	1	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	31.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	26.5	U/L	0.00 - 49.00
AST/ALT RATIO: SI by CALCULATED, SPE		1.2	RATIO	0.00 - 46.00
ALKALINE PHOSPH by Para Nitrophen propanol	IATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	77.43	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUN Phtometry	1 22.11	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.54	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.66	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	[2.88	gm/dL	2.30 - 3.50
A : G RATIO: SERUN	Л	1.62	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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INTERPRETATION





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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTION	TEST (COMPLETE)	
UREA: SERUM	TE DEHYDROGENASE (GLDH)	33.98	mg/dL	10.00 - 50.00
CREATININE: SERUN	1	1.14	mg/dL	0.40 - 1.40
BLOOD UREA NITRO by CALCULATED, SPEC	GEN (BUN): SERUM	15.88	mg/dL	7.0 - 25.0
BLOOD UREA NITRO	GEN (BUN)/CREATININE	13.93	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPEC	TROPHOTOMETRY			
UREA/CREATININE by CALCULATED, SPEC	RATIO: SERUM	29.81	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE		5.87	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECT		10.85 ^H	mg/dL	8.50 - 10.60
PHOSPHOROUS: SER		2.97	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE I		144.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.76	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		108.15	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
ESTIMATED GLOMEI (eGFR): SERUM by calculated INTERPRETATION:	RULAR FILTERATION RATE	69.2		

INTERPRETATION:

To differentiate between pre- and post renal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	٢	Dr. Vinay Chopra 1D (Pathology & Micro Thairman & Consultant	obiology)		Yugam Ch MD (Path nsultant Patho	ology)			
IAME	: Mr. SUNIL AG	GARWAL							
GE/ GENDER	: 70 YRS/MALE		PA	ATIENT ID	: 1	687884			
COLLECTED BY			RI	EG. NO./LAB NO	. :0	124120200	06		
EFERRED BY				EGISTRATION D		2/Dec/2024 0			
ARCODE NO.	:01521823			DLLECTION DAT		2/Dec/2024 0			
CLIENT CODE.	: KOS DIAGNOS			EPORTING DAT	E :0	2/Dec/2024 1	0:31AM		
LIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBA	LA CANTT						
Fest Name			Value	Ur	nit	Biolog	jical Refere	ence interv	al
 Postrenal azotemia Prerenal azotemia PECREASED RATIO (< Acute tubular necr Low protein diet au 	a (BUN rises dispro superimposed or 10:1) WITH DECRE osis. nd starvation.) (e.g. obstructiv	e uropathy).				
Postrenal azotemia Prerenal azotemia DECREASED RATIO (Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in	a (BUN rises dispressions) superimposed or superimposed or 10:1) WITH DECRE osis. Ind starvation. e. creased urea synt (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCRE py (accelerates co eleases muscle cr who develop remissions) sis (acetoacetate creased BUN/creas apy (interferes w JLAR FILTERATION Norm Kid	oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses out is virtually absent in the tidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increased atinine ratio). ith creatinine measure INTE: DESCRIPTION nal kidney function ney damage with	an creatinine ut of extracelli blood). due to tubular to creatinine) ement). GFR (mL/	ular fluid). secretion of urea	a. thodologies,r ASSOCIA No p Presence	TED FINDINGS roteinuria e of Protein ,		when dehyd	atio
Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia CREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. Peregnancy. Peregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin the <u>STIMATED GLOMERI G1 G2 </u>	a (BUN rises dispressions) superimposed or superimposed or IO:1) WITH DECRE. osis. ad starvation. e. creased urea synt (urea rather than monemias (urea of inappropiate ar IO:1) WITH INCRE/ py (accelerates co eleases muscle cr who develop remains) sis (acetoacetate creased BUN/creased sis (acetoacetate creased BUN/creased apy (interferes w JLAR FILTERATION Norm Kid no	oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses out is virtually absent in the tidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increased atinine ratio). ith creatinine measure INATE: DESCRIPTION nal kidney function ney damage wither readine of the free set of the free	an creatinine ut of extracelli blood). due to tubular to creatinine) ement).	ular fluid). secretion of urea with certain me min/1.73m2) >90	a. thodologies,r ASSOCIA No p Presence	TED FINDINGS roteinuria		when dehyd	atio
Postrenal azotemia Prerenal azotemia Perenal azotemia PecREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. PecREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin thera STIMATED GLOMERI CKD STAGE G1	a (BUN rises dispressions) superimposed or superimposed or IO:1) WITH DECRE osis. Ind starvation. e. creased urea synt (urea rather than monemias (urea of inappropiate ar IO:1) WITH INCRE/ py (accelerates co eleases muscle cr who develop remu- sis (acetoacetate creased BUN/creas apy (interferes w JLAR FILTERATION Norm Kid no	oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses out is virtually absent in the tidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increased atinine ratio). ith creatinine measure INTE: DESCRIPTION nal kidney function ney damage with	an creatinine) ut of extracelli blood). due to tubular to creatinine) ement). GFR (mL/	ular fluid). secretion of urea with certain me <u>min/1.73m2) >90 >90</u>	a. thodologies,r ASSOCIA No p Presence	TED FINDINGS roteinuria e of Protein ,		when dehyd	atio
Postrenal azotemia Prerenal azotemia CREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. Peregnancy. Peregnancy. Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin the STIMATED GLOMERI G1 G2 G3a	a (BUN rises dispressions) superimposed or superimposed or IO:1) WITH DECRE. osis. and starvation. e. creased urea synt (urea rather than monemias (urea of inappropiate ar IO:1) WITH INCRE/ py (accelerates co eleases muscle cr who develop rena- tices and BUN/crea- rapy (interferes w <u>JLAR FILTERATION</u> Norm Kid no Millo Seve	oportionately more the renal disease. ASED BUN : ASED BUN : thesis. creatinine diffuses out is virtually absent in the tidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increased atinine ratio). ith creatinine measure IRATE: DESCRIPTION nal kidney function ney damage wither rmal or high GFR_ d decrease in GFR	an creatinine blood). due to tubular to creatinine ement). GFR (mL/ 6 3 1	ular fluid). secretion of urea with certain me <u>min/1.73m2)</u> >90 >90	a. thodologies,r ASSOCIA No p Presence	TED FINDINGS roteinuria e of Protein ,		when dehyd	atio





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CAN'I'I'	
			. 02/ DEC/ 2024 10.51AW
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Dec/2024 10:31AM
BARCODE NO.	:01521823	COLLECTION DATE	: 02/Dec/2024 08:50AM
REFERRED BY	:	REGISTRATION DATE	: 02/Dec/2024 08:36 AM
COLLECTED BY	:	REG. NO./LAB NO.	: 012412020006
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1687884
NAME	: Mr. SUNIL AGGARWAL		
	Chairman & Consu		1D (Pathology) ant Pathologist
	Dr. Vinay Cho MD (Pathology & N		am Chopra

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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BARCODE NO.	:01521823	COLL	ECTION DATE	: 02/Dec/2024 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 02/Dec/2024 09:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
				/
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM		70.71	μg/dL	59.0 - 158.0
by FERROZINE, SPEC		0×0×0H	ug (di	150.0 - 336.0
SERUM	ON BINDING CAPACITY (UIBC)	350.59 ^H	μg/dL	130.0 - 330.0
by FERROZINE, SPEC				
TOTAL IRON BIND	ING CAPACITY (TIBC)	421.3	μg/dL	230 - 430
by SPECTROPHOTOM	IETERY			
	ATURATION: SERUM	16.78	%	15.0 - 50.0
•	CTROPHOTOMETERY (FERENE)	200.12	IL/ mark	200.0 250.0
TRANSFERRIN: SE		299.12	mg/dL	200.0 - 350.0
INTERPRETATION:-				

INTERPRETATION:-			
VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased

IRON

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC): It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.





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BARCODE NO.	: 01521823	COLL	ECTION DATE	: 02/Dec/2024 08:50AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 02/Dec/2024 09:58AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference inter	val
		ENDOCRING	DLOGY		
	ТН	ENDOCRINO YROID FUNCTION			
TRIIODOTHYRONI by CMIA (CHEMILUMIN		YROID FUNCTION 1.246		0.35 - 1.93	
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM	YROID FUNCTION 1.246 SSAY) 7.18	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM Nescent microparticle immunoas SERUM	YROID FUNCTION 1.246 SSAY) 7.18 SSAY) VM 2.149	T EST: TOTAL ng/mL		
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	NE (T3): SERUM vescent microparticle immunoas SERUM vescent microparticle immunoas ATING HORMONE (TSH): SERU vescent microparticle immunoas	YROID FUNCTION 1.246 SSAY) 7.18 SSAY) VM 2.149	T EST: TOTAL ng/mL µgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	NE (T3): SERUM VESCENT MICROPARTICLE IMMUNOAS SERUM VESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERU VESCENT MICROPARTICLE IMMUNOAS TRASENSITIVE circadian variation, reaching peak levels	YROID FUNCTION 1.246 SSAY) 7.18 SSAY) JM 2.149 SSAY) between 2-4 a.m and at a n H stimulates the production	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 <i>n. The variation is of the order of 50%.Hence time</i> etabolically active hormones, thyroxine (T4)and	of th

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	TRIIODOTHYRONINE (T3) THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)	gam Chopra MD (Pathology) Itant Pathologist
NAME	: Mr. SUNIL AGGARWAL		
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BARCODE NO.	: 01521823	COLLECTION DATE	: 02/Dec/2024 08:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 02/Dec/2024 09:58AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	BALA CANTT	
Test Name		Value Unit	Biological Reference interval
1 10 Veere		(00 12 00 1 4 40 1	0/0.550

1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	1
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	VANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		1
	3rd Trimester			0.30 - 4.10		1

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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	01521823		LECTION DATE	: 02/Dec/2024 08:50AM
	KOS DIAGNOSTIC LAB		PORTING DATE	: 02/Dec/2024 01:45PM
	: 6349/1, NICHOLSON ROA			
Name		Value	Unit	Biological Reference interval
IA (CHEMILUMINES) PRETATION:	CENCE IMMUNOASSAY)			INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
DEFICI	NT:	< 20	n	g/mL
INSUFFI		21 - 29		g/mL
PREFFERED INTOXIC		30 - 100 > 100		g/mLg/mL
min D compound	ocholecalciferol to Vitamin resents the main body rese	n D3 in the skin upon Ultr evoir and transport form (hile in circulation.	aviolet exposure. of Vitamin D and trans	port form of Vitamin D, being stored in adipos n absorption, renal calcium absorption and
rsion of 7- dihvdi HVitamin D rep and tightly bour min D plays a pri hate reabsorptio re deficiency ma ASED: of sunshine expe equate intake, n ressed Hepatic V ondarv to advanc coporosis and Sec me Inducing dru ASED:	nary role in the maintenan n, skeletal calcium depositi y lead to failure to minerali sure. alabsorption (celiac diseas tamin D 25- hydroxylase ac	ion, calcium mobilization ize newly formed osteoid ce) ctivity n (Mild to Moderate defi phenytoin, phenobarbita	, mainly reau in bone, res ciency) I and carban	ilated by i sulting in r nazepine,

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD (CEO & Consultant F	Pathology)	
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BARCODE NO.	:01521823	COLL	ECTION DATE	: 02/Dec/2024 08:50AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 02/Dec/2024 03:27PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD				
Test Name		Value	Unit	Biological Reference interval	
		1774 ^H	pg/mL	190.0 - 830	
by CMIA (CHEMILUMII INTERPRETATION:-	NESCENT MICROPARTICLE IMMUNO	ASSAY)			
by CMIA (CHEMILUMII INTERPRETATION:- INCREA	NESCENT MICROPARTICLE IMMUNO	ASSAY)	pg/mL DECREASED VITAMIN		
by CMIA (CHEMILUMII INTERPRETATION:- INCREA 1.Ingestion of Vitar	NESCENT MICROPARTICLE IMMUNO. SED VITAMIN B12 min C	ASSAY)	DECREASED VITAMIN	<u>B12</u>	
by CMIA (CHEMILUMII INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro	NESCENT MICROPARTICLE IMMUNO. SED VITAMIN B12 min C ogen	ASSAY) 1.Pregnancy 2.DRUGS:Aspir	DECREASED VITAMIN	<u>B12</u>	
by CMIA (CHEMILUMII INTERPRETATION:- INCREA: 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in	NESCENT MICROPARTICLE IMMUNO. SED VITAMIN B12 min C ogen nin A njury	ASSAY)	DECREASED VITAMIN in, Anti-convulsants, ion	<u>B12</u>	
INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitar 4.Hepatocellular in 5.Myeloproliferatio	NESCENT MICROPARTICLE IMMUNO. SED VITAMIN B12 min C ogen nin A njury	ASSAY)	DECREASED VITAMIN in, Anti-convulsants, ion /e Harmones sis	<u>B12</u>	
by CMIA (CHEMILUMII INTERPRETATION:- INCREA 1.Ingestion of Vitar 2.Ingestion of Vitar 3.Ingestion of Vitar 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (coba	NESCENT MICROPARTICLE IMMUNO. SED VITAMIN B12 min C ogen nin A njury	ASSAY)	DECREASED VITAMIN in, Anti-convulsants, ion /e Harmones sis eloma nal function.	B12 Colchicine	



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Page 18 of 20





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CLIENT CODE.: KOS DIAGNCLIENT ADDRESS: 6349/1, NIC	OSTIC LAB CHOLSON ROAD, AMBALA CA	REPORTING DATE	: 02/Dec/2024 09:26AM	
Test Name	Value	e Unit	Biological Reference interval	
		CAL PATHOLOGY		
	URINE ROUTINE &	MICROSCOPIC EXAMI	NATION	
PHYSICAL EXAMINATION				
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTRO	DPHOTOMETRY 10	ml		
COLOUR	AMB	ER YELLOW	PALE YELLOW	
by DIP STICK/REFLECTANCE SPECTRC TRANSPARANCY	CLEA	AR	CLEAR	
by DIP STICK/REFLECTANCE SPECTRO	PHOTOMETRY			
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTRO	1.01 PHOTOMETRY		1.002 - 1.030	
CHEMICAL EXAMINATION				
REACTION by DIP STICK/REFLECTANCE SPECTRO	ACII	DIC		
PROTEIN	Nega	ative	NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTRC SUGAR	Nega	ntive	NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTRO	PHOTOMETRY			
pH by DIP STICK/REFLECTANCE SPECTRO	0 PHOTOMETRY		5.0 - 7.5	
BILIRUBIN by DIP STICK/REFLECTANCE SPECTRO	Nega	ative	NEGATIVE (-ve)	
NITRITE	Nega	ative	NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTRC UROBILINOGEN			0.2 - 1.0	
by DIP STICK/REFLECTANCE SPECTRO	PHOTOMETRY			
KETONE BODIES by DIP STICK/REFLECTANCE SPECTRO	Nega	ntive	NEGATIVE (-ve)	
BLOOD	Nega	ative	NEGATIVE (-ve)	
by DIP STICK/REFLECTANCE SPECTRO ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTRO MICROSCOPIC EXAMINATION	NEG	ATIVE (-ve)	NEGATIVE (-ve)	
RED BLOOD CELLS (RBCs)	NEG	ATIVE (-ve) /HPF	0 - 3	





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Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mr. SUNIL AGGARWAL				
AGE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1687884	
COLLECTED BY	: : 01521823 : KOS DIAGNOSTIC LAB		REG. NO./LAB NO.	: 012412020006 : 02/Dec/2024 08:36 AM : 02/Dec/2024 08:50AM : 02/Dec/2024 09:26AM	
REFERRED BY			REGISTRATION DATE		
BARCODE NO.			COLLECTION DATE		
CLIENT CODE.			REPORTING DATE		
CLIENT ADDRESS					
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5	
FDITHELIAL CELLS	2	1 2	/UDF	ABCENT	

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT	

** End Of Report ***



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

